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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

HU, JINSONG

ART UNIT PAPER NUMBER

2154

DATE MAILED: 04/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/928,610

Applicant(s)

COOK, FRED S.

Examiner

Jinsong Hu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. Claims 1- 32 are presented for examination. Claims 1, 12 and 22 are amended.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4-6, 8-9, 11-13, 16-19, 21-22, 25-27, 29-30 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 6,026,078).

4. As per claim 1, Smith teaches the invention as claimed including a communication hub [44, Fig. 3] comprising:

a control system [Fig. 3] configured to switch between either a configuration mode [i.e., hub mode, the port will receive the request from network device and performs configuration for a new device in this mode] or an operation mode [i.e., station mode; col.1, line 60 – col. 2, line 9], wherein responsive to the configuration mode the control system is configured to receive a registration request from an unauthorized communication device [col. 3, lines 40-48] and process the registration request to automatically authorize the communication device for use with the communication hub

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[col. 3, lines 49-60], and wherein responsive to switching to the operation mode the control system is configured to control an exchange of communications between a plurality of previously authorized communication devices, the newly authorized communication device, and a network system [col. 3, line 61- col. 4, line 13];

a mode selection interface [56, Fig. 3] configured to receive an input from a user that selects one of the configuration mode and the operation mode, and process the input to cause the control system to enter the selected one of the configuration mode and the operation mode [col. 4, lines 43 – 61]; and

an interface [58, Fig. 3] system configured to receive the registration request and exchange the communications between the plurality of previously registered communication devices, the newly registered communication device, and a network system [col. 5, lines 17-25].

5. As per claim 4, Smith teaches the control system is configured to cause the mode selection interface to indicate to the user that the newly authorized communication device is configured for use with the communication hub [col. 4, lines 43 – 61; col. 5, lines 17-25].

6. As per claim 5, Smith teaches the step of recording the communication device in the communication hub as an allowed communication device [col. 3, lines 49-60].

7. As per claim 6, Smith teaches the step of processing the registration request to generate a query message for the unauthorized communication device that includes a request for a device identifier and processing a response message from the unauthorized communication device that includes the device identifier to record the device identifier as an allowed communication device in the communication hub [col. 3, lines 49-60].

8. As per claim 8, Smith teaches the control system is configured to process the response message includes the device identifier to assign a virtual connection for communication exchanged between the newly authorized communication device and the network system [col. 5, lines 49-60].

9. As per claim 9, Smith teaches control system is configured to use device identifier to identify communication requests made by the newly authorized communication device [col. 3, lines 49-60].

10. As per claim 11, Smith teaches the communication device is a wireless communication device [12,14, etc. Fig.1].

11. As per claim 12, since it is a method claim of claim 1, it is rejected for the same basis as claim 1 above.

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12. As per claim 13, since it is a method claim of claim 4, it is rejected for the same basis as claim 4 above.

13. As per claim 16, since it is a method claim of claim 5, it is rejected for the same basis as claim 5 above.

14. As per claim 17, since it is a method claim of claim 6, it is rejected for the same basis as claim 6 above.

15. As per claim 18, since it is a method claim of claim 8, it is rejected for the same basis as claim 8 above.

16. As per claim 19, since it is a method claim of claim 9, it is rejected for the same basis as claim 9 above.

17. As per claim 21, since it is a method claim of claim 11, it is rejected for the same basis as claim 11 above.

18. As per claim 22, since it is a product claim of claim 1, it is rejected for the same basis as claim 1 above.

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19. As per claim 25, since it is a product claim of claim 4, it is rejected for the same basis as claim 4 above.

20. As per claim 26, since it is a product claim of claim 5, it is rejected for the same basis as claim 5 above.

21. As per claim 27, since it is a product claim of claim 6, it is rejected for the same basis as claim 6 above.

22. As per claim 29, since it is a product claim of claim 8, it is rejected for the same basis as claim 7 above.

23. As per claim 30, since it is a product claim of claim 9, it is rejected for the same basis as claim 9 above.

24. As per claim 32, since it is a product claim of claim 11, it is rejected for the same basis as claim 11 above.

Claim Rejections - 35 USC § 103

25. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

26. Claims 2-3, 7, 14-15, 23-24 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (US 6,026,078) as applied to claims 1, 4-6, 8-9, 11-13, 16-19, 21-22, 25-27, 29-30 and 32 above, in view of Reichmeyer et al. (US 6,286,038)

27. As per claim 2, Smith teaches the invention substantially as claimed in claim 1. Smith does not specifically teach generating a configuration completion message to user. However, Reichmeyer on the other hand teaches generating a configuration completion message to user [col. 6, lines 39-42]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to including Reichmeyer's message to Smith's system to make the system more user friendly by acknowledge the user without delay. One of ordinary skill in the art would have been motivated to modify Smith's system to improve the quality of the service to attract more customs.

28. As per claim 3, Smith teaches the invention substantially as claimed in claim 1. Smith does not specifically teach generating a configuration completion message to user [col. 6, lines 39-42]. However, Reichmeyer on the other hand teaches generating a configuration completion message to user. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to including Reichmeyer's message to Smith's system to make the system more user friendly by acknowledge the

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user without delay. One of ordinary skill in the art would have been motivated to modify Smith's system to improve the quality of the service to attract more customs.

29. As per claim 7, Smith teaches the invention substantially as claimed in claim 1. Smith does not specifically teach providing query message to the unauthorized communication device. However, Reichmeyer on the other hand teaches providing query message to the unauthorized communication device [col. 7, lines 51-58]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to including Reichmeyer's message in Smith's system to make the system more user friendly by notifying the user what kind information should be entered for authorization.

30. As per claim 14, since it is a method claim of claim 2, it is rejected for the same basis as claim 2 above.

31. As per claim 15, since it is a method claim of claim 3, it is rejected for the same basis as claim 3 above.

32. As per claim 23, since it is a product claim of claim 2, it is rejected for the same basis as claim 2 above.

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33. As per claim 24, since it is a product claim of claim 3, it is rejected for the same basis as claim 3 above.

34. As per claim 28, since it is a product claim of claim 7, it is rejected for the same basis as claim 7 above.

35. Claims 10, 20 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (US 6,026,078) as applied to claims 1, 4-6, 8-9, 11-13, 16-19, 21-22, 25-30 and 32 above.

36. As per claim 10, Smith teaches the invention substantially as claimed in claim 1. Smith does not specifically teach the communication device is a wireless communication device. However, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include wireless communication device in Smith's system because doing so would increase the functionality of the system by allowing the users select the device they prefer or need. One of ordinary skill in the art would have been motivated to modify Smith's system with wireless communication device to provide more option to users.

37. As per claim 20, since it is a method claim of claim 10, it is rejected for the same basis as claim 10 above.

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38. As per claim 31, since it is a product claim of claim 10, it is rejected for the same basis as claim 10 above.

Conclusion

39. Applicant's arguments filed on 1/4/06 for claims 1-32 have been fully considered but they are not deemed to be persuasive.

40. In the remarks, applicant argued in substance that Smith does not teach the control system is configured between either a configuration mode or an operation mode.

41. Examiner respectfully traverses applicant's remarks:

Applicant fails to consider the teaching of the Smith's reference for switching the control system between a first mode [i.e., hub mode] and a second mode [i.e., station mode], the first mode is a mode which the control system being able to establishing the initial connection with the communication device and performing configuration procedure [col. 3, lines 40-60], in the other words, the first mode is also a configuration mode. Thus, Smith does teach the control system is configured between either a configuration mode or an operation mode.

42. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinsong Hu whose telephone number is (571) 272-3965. The examiner can normally be reached on 8:00 AM - 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Jinsong Hu', with a large, stylized loop at the end.

Jinsong Hu

March 29, 2006